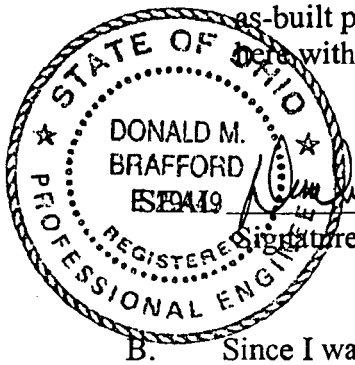
OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION

CERTIFICATION

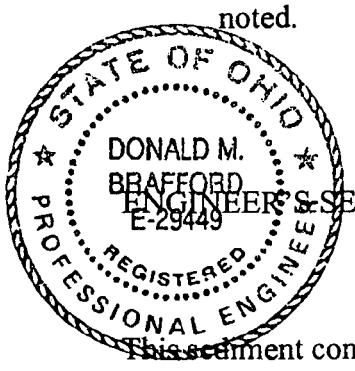
Permitee's Name Bennoc, Inc. Permit D-0425

A. I hereby certify that the measurements of the constructed sediment control system described below are in general conformance to the measurements contained in the as-built plans submitted with the original application, a copy of same being resubmitted here with.



Signature P.E. Title (engineer/surveyor) 5-10-01 Date

B. Since I was not on site in 1967 when the sediment control structure was constructed by others, a certification regarding embankment foundation, fill material being free of sod, large roots etc. and the fill being brought up in horizontal layers of adequate thickness as required can not be made. The structure is visibly sound with no know structural problems and it has been monitored for the past 17 years without any problems being noted.



ENGINEER'S SEAL Signature 5-10-01 Date

This sediment control system consists of: Sediment Pond No. 002

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF RECLAMATION

ATTACHMENT 20
(EXCAVATED SEDIMENT POND)

Applicant The Youghiogheny & Ohio Coal Company Pond No. 002
Allison Mine

1. Pond Drainage Area Data

(a) Drainage area 3.2 Ac.
(b) Disturbed area 1.1 Ac.
(c) Average land slope 17 %
(d) Soil Type Not Applicable
(e) Cover/Condition of undisturbed area Grassland

2. Design Storm Criteria

(a) Method:
(1) SCS method curve number CN 80
(2) Other method (explain in item 7)

(b) 10 yr./24 hr. Storm
(1) Precipitation amount 3.8 in
(2) Peak inflow Q 7.9 cfs (inflow pumping rate is 9,000 GPD maximum)

(c) 25 yr./24 hr. Storm
(1) Precipitation amount 4.3 in.
(2) Peak inflow Q 10.1 cfs (inflow pumping rate is 9,000 GPD maximum)

3. Pond Size (1)

(a) Surface area of pool at exit channel crest 0.09 Ac.
(b) Sediment storage provided below exit channel crest _____ Ac.Ft. Not Applic
(c) Pre-construction land slope of pond site 17 %

4. Pond Dimensions:

(a) If rectangle shape indicate:
(1) Length 175 Ft.
(2) Width 100 Ft.
(3) Depth 5 Ft.

(b) If the pond is not rectangular in shape, provide a plan view of the pond in the space below and indicate average depth in feet.

AEC 16889

5. Exit Channel Design/Emergency Spillway Design If Embankment[1]

(a) Width _____Ft.
(b) Design flow depth _____Ft.
(c) Free board _____Ft.
(d) Side Slopes _____H : _____V
(e) Slope of exit channel _____%
(f) Velocity in exit channel _____f.p.s.
(g) Exit channel protection _____

_____

6. Will an earthen embankment be used to increase the capacity of the excavated pond? _____Yes, X No. If "yes", complete the following items:

(a) Maximum height of embankment _____Ft. (See Note)
(b) Minimum top width of embankment _____Ft.
(c) Side slopes of embankment _____H: _____ V
(d) Top of embankment elevation _____Ft.
(e) Elevation of emergency spillway _____Ft.
(f) Will a pipe principal spillway be provided? _____Yes, _____No. If "yes", complete the items below.

(1) Diameter of pipe principal spillway _____ Inches
(2) Elevation of pipe principal spillway _____ Ft.
(3) Pipe slope _____ Ft./Ft.
(4) Pipe Length _____Ft.
(5) Type of pipe _____
(6) Outlet protection _____

Note: If the embankment impounds water to a depth greater than three (3) feet at the emergency spillway elevation, then the pond is to be considered an embankment pond and Attachment II is to be submitted.

7. Comments

(1) Water is removed from the pond by a 12-inch-diameter CMP.

I certify that I designed this pond/was designed under my direction and the design meets the applicable requirements of rule 1501: 13-8-04 of the Administrative Code.

MARCH 20, 1984
Date

Signature - Richard G. Almes

STATE OF OHIO
RICHARD G. ALMES
E-35172
REGISTERED PROFESSIONAL ENGINEER

P.E. Seal